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FIG. 1A

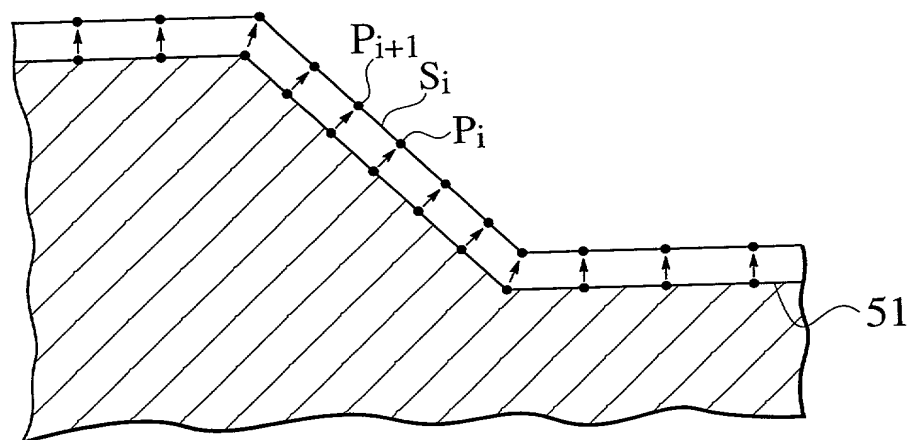
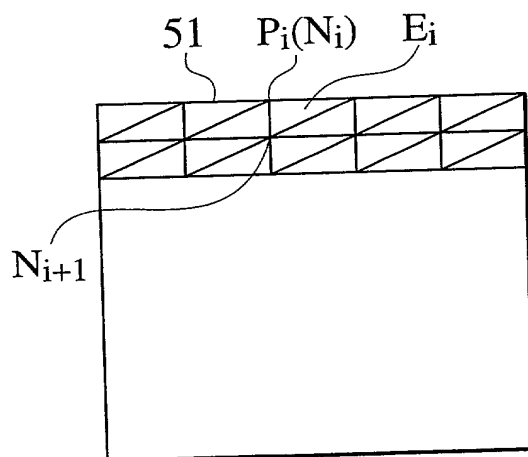
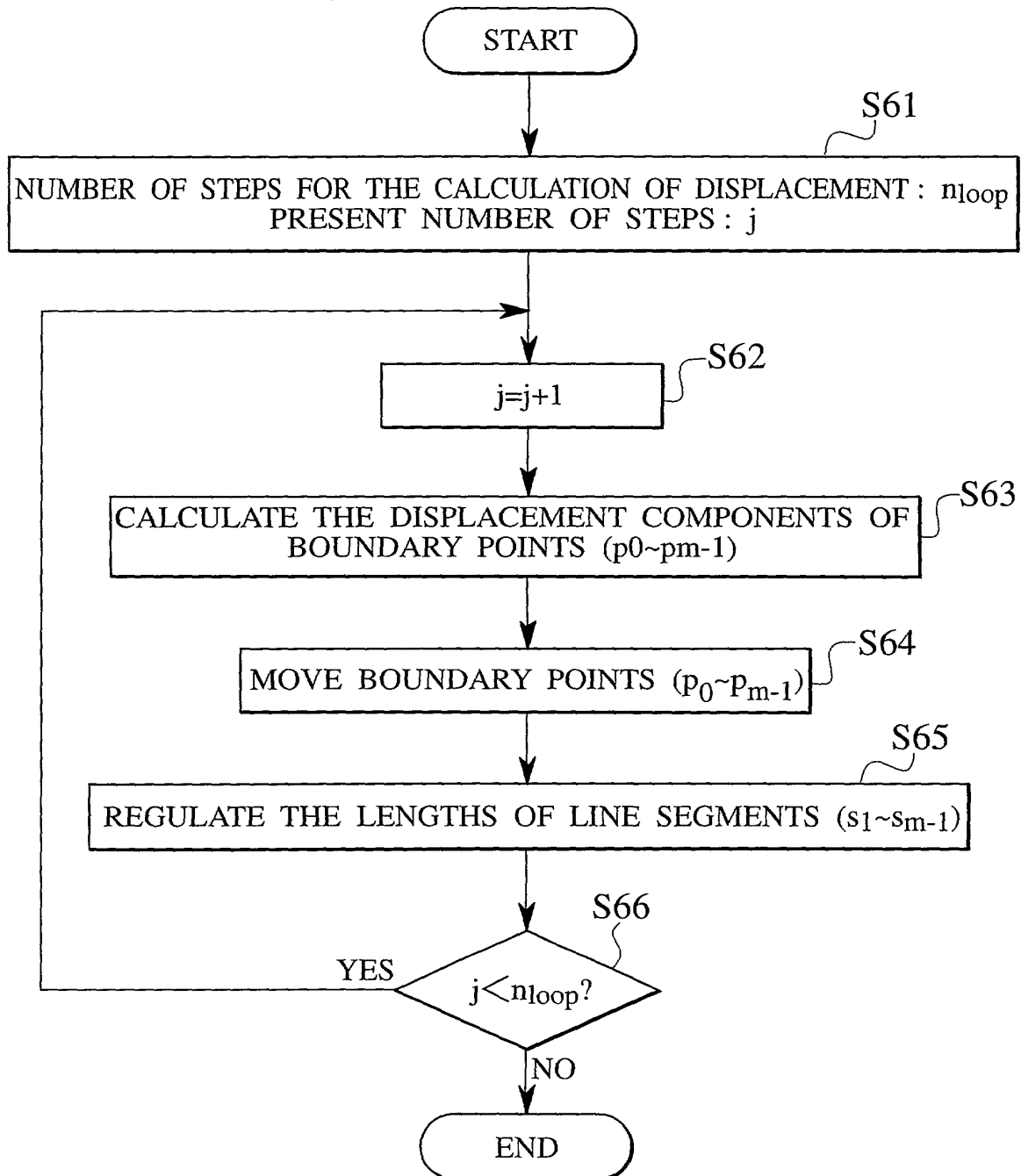


FIG. 1B



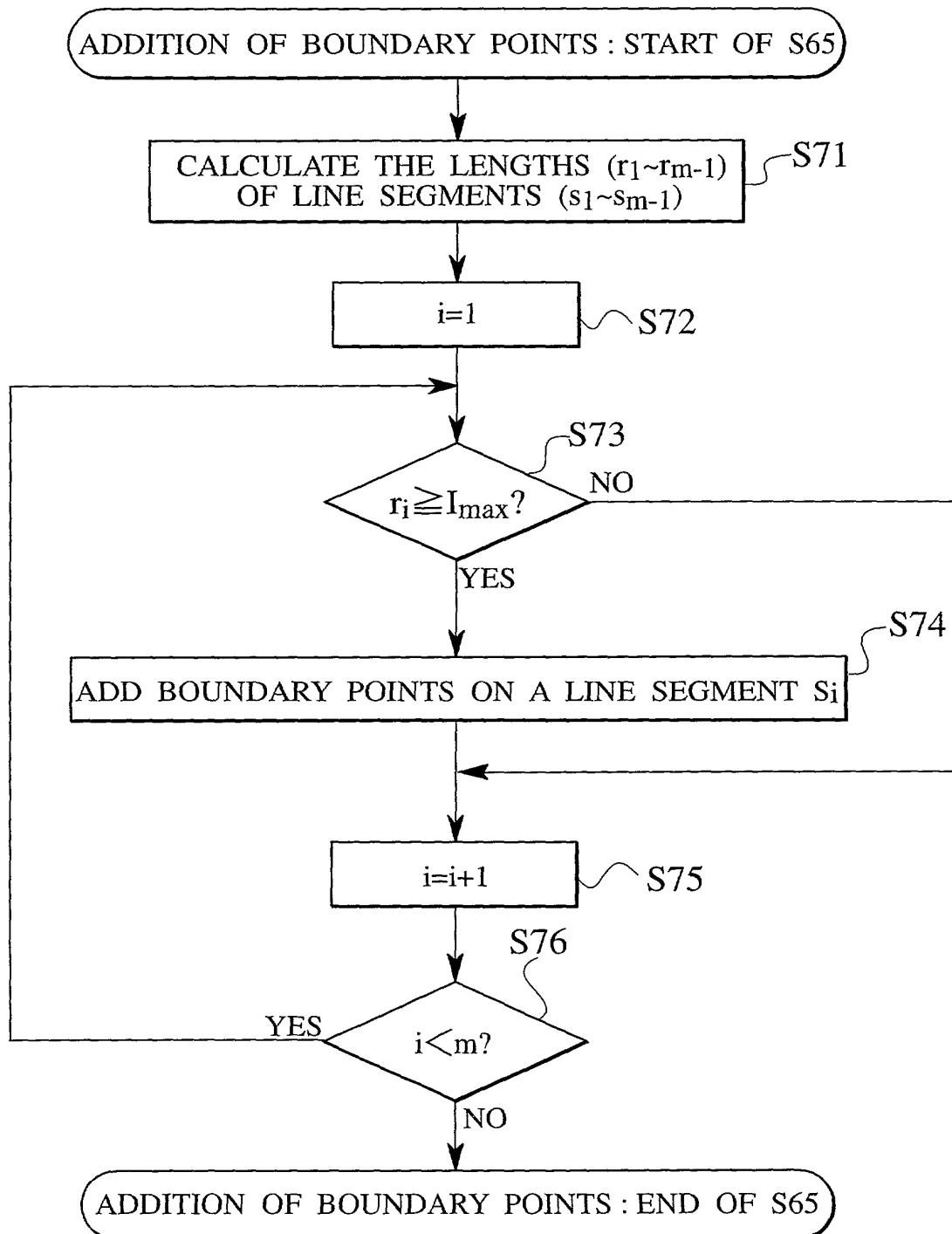
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FIG. 2
PRIOR ART



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FIG. 3
PRIOR ART



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FIG. 4
PRIOR ART

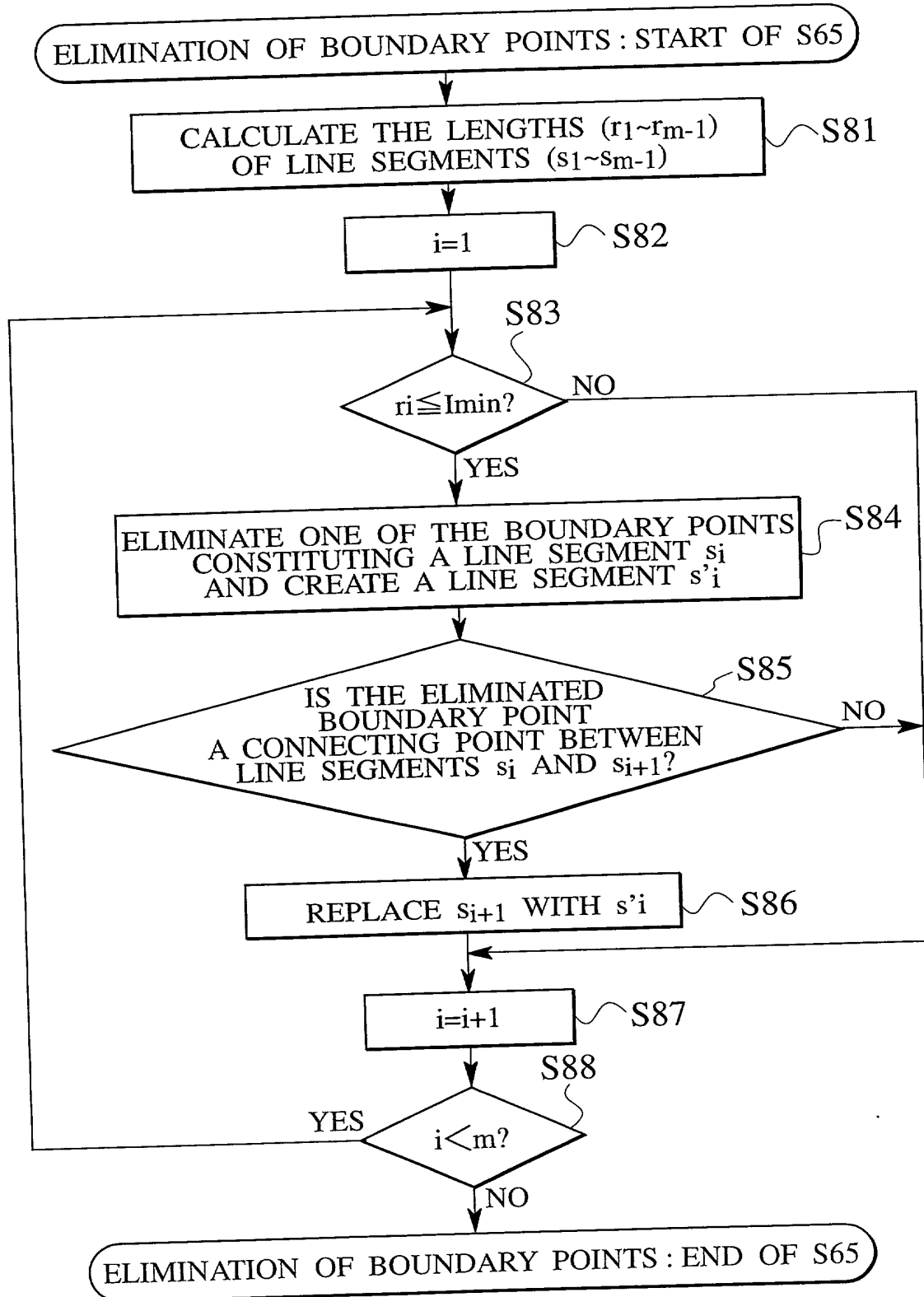


FIG. 5A

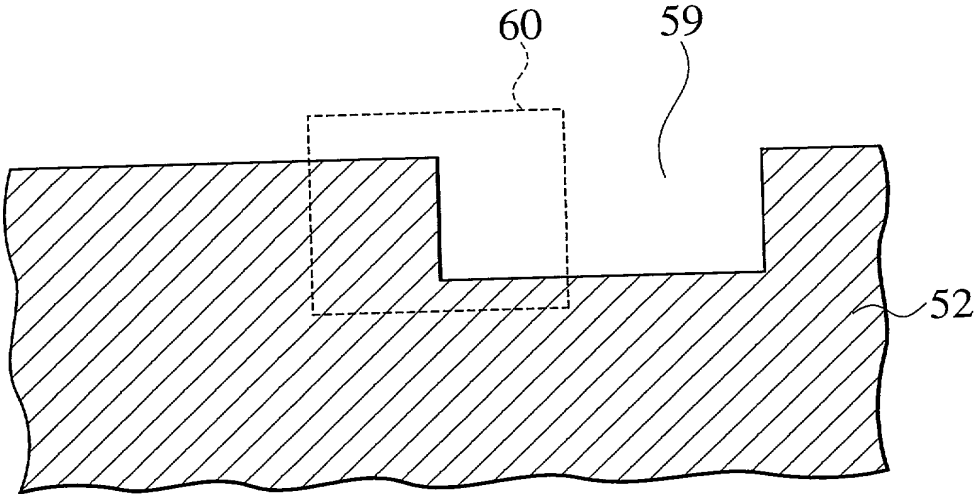
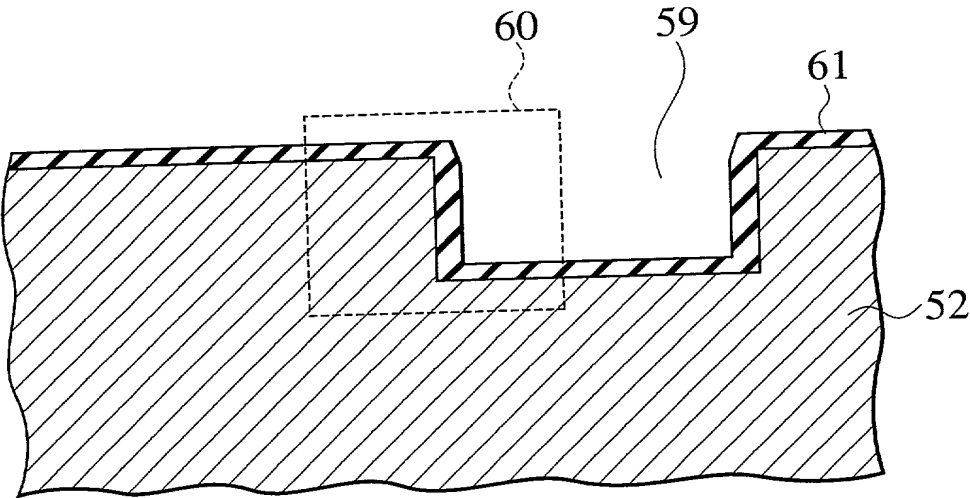


FIG. 5B



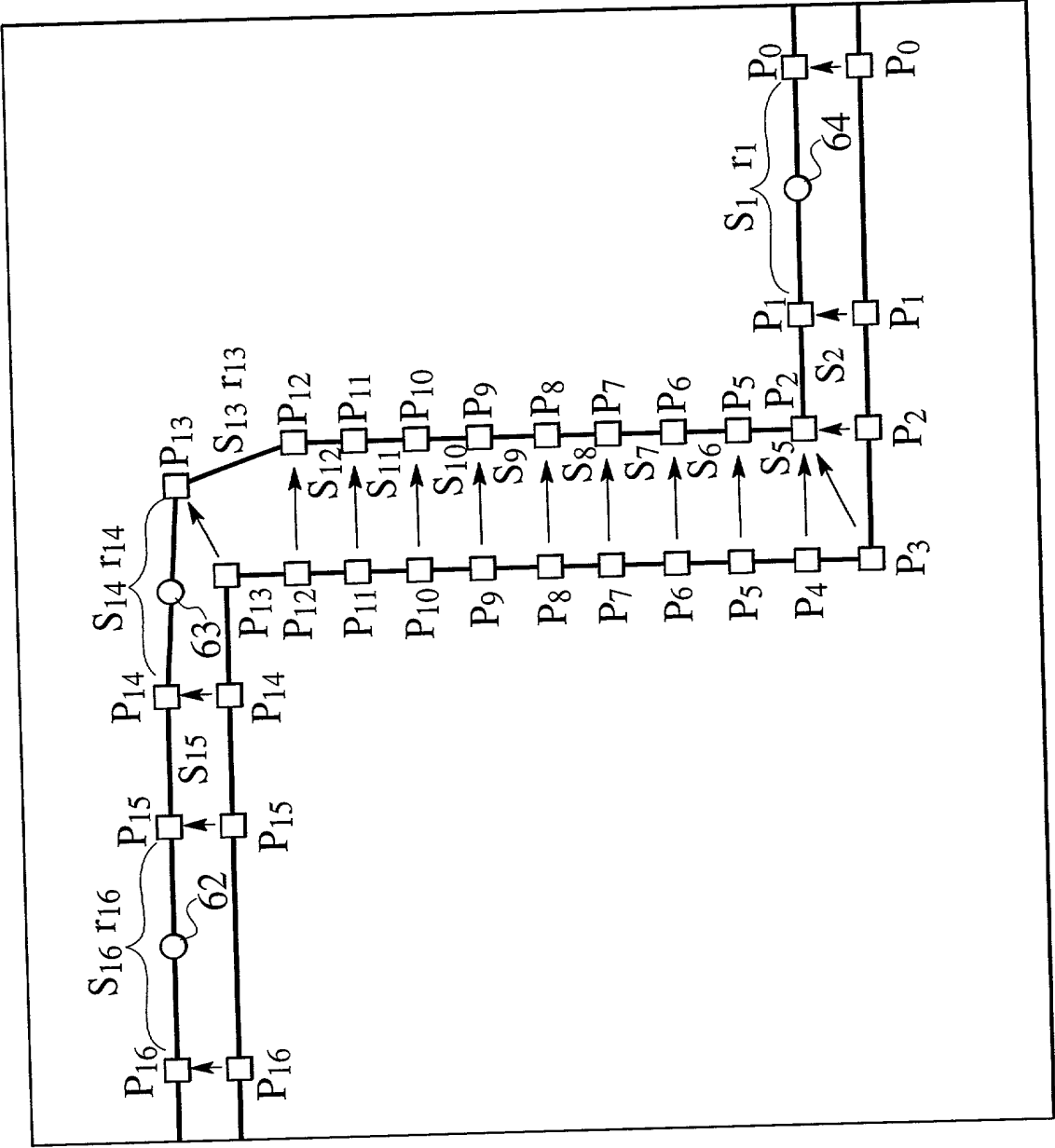


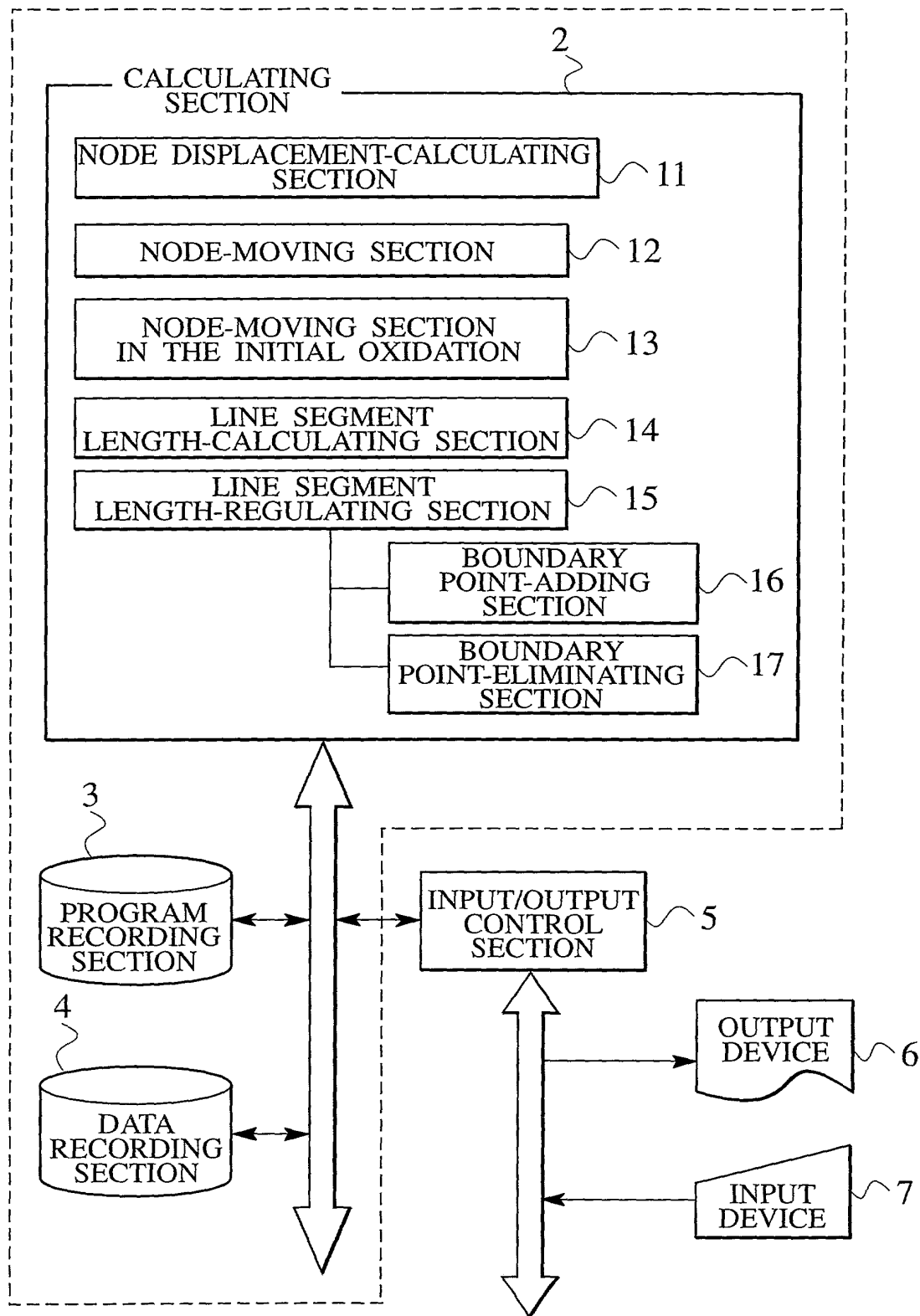
FIG. 6
PRIOR ART

FIG. 6 PRIOR ART

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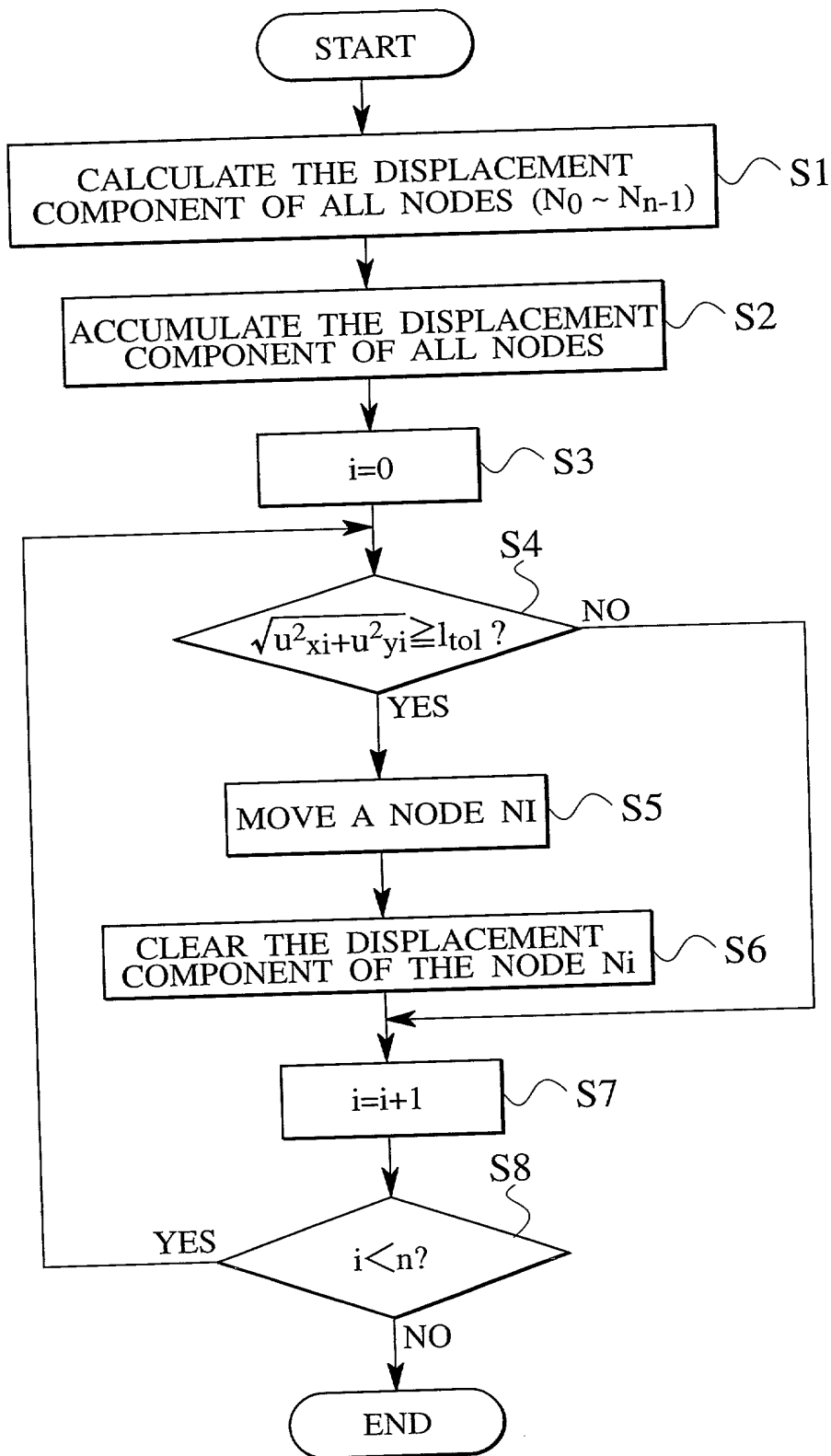
FIG. 7

SIMULATOR 1



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FIG. 8



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FIG. 9A

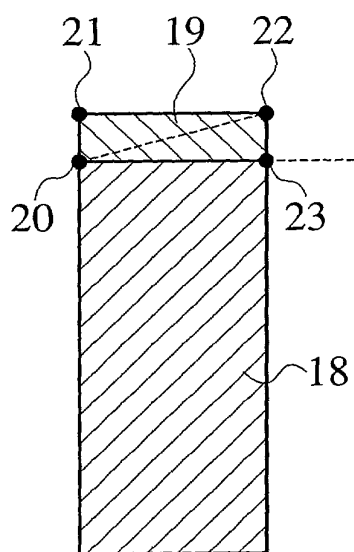


FIG. 9B

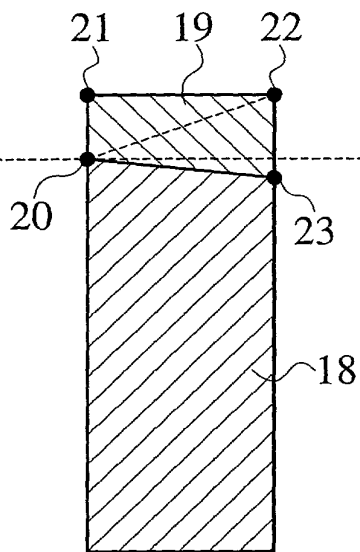
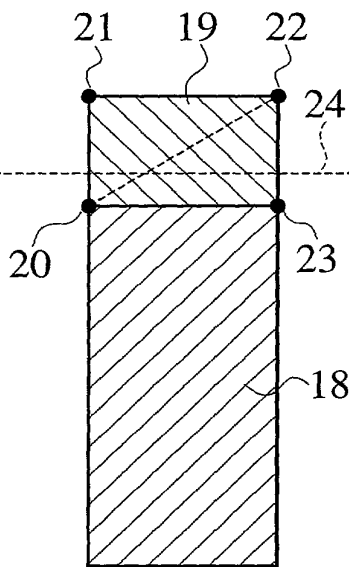
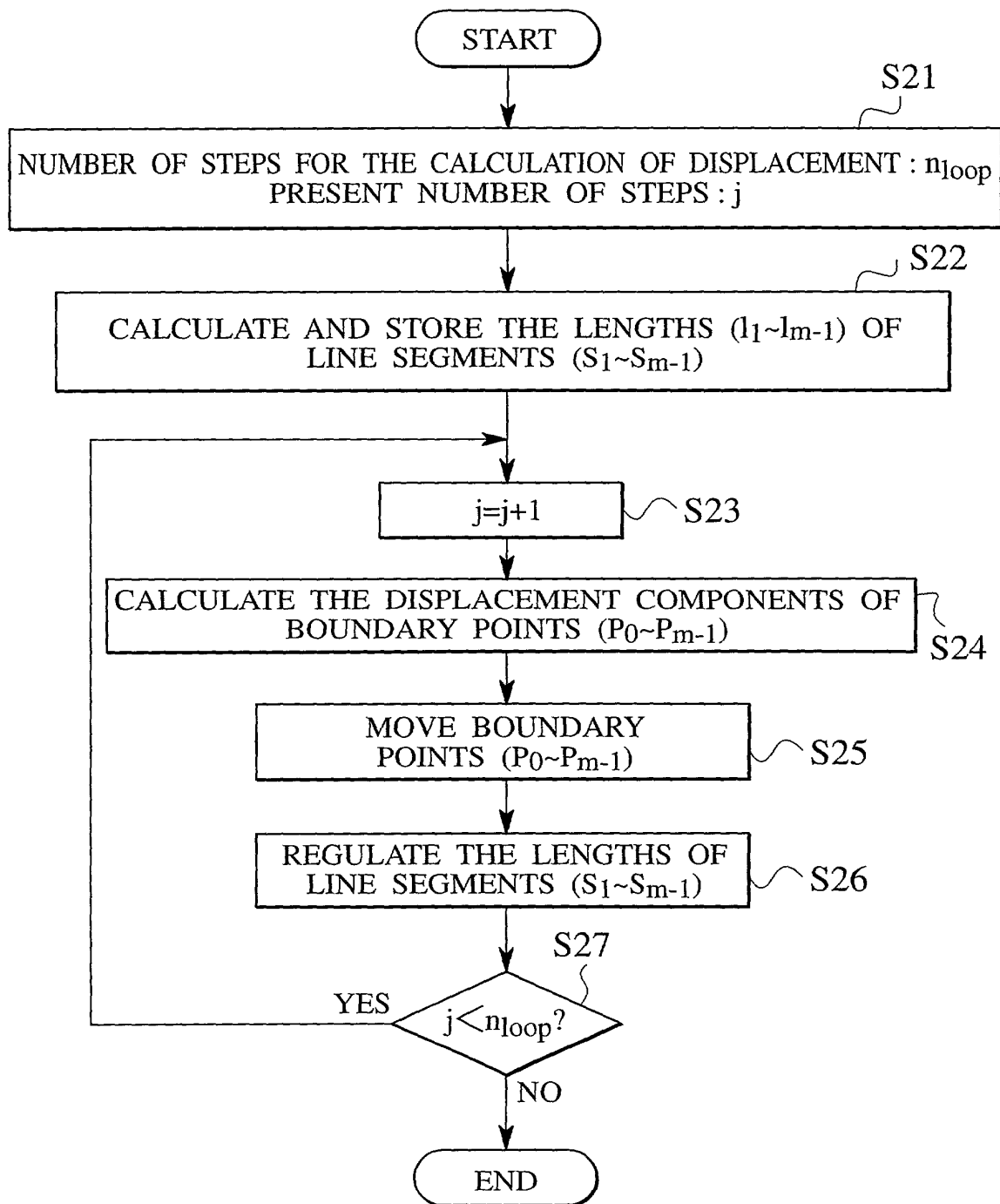


FIG. 9C



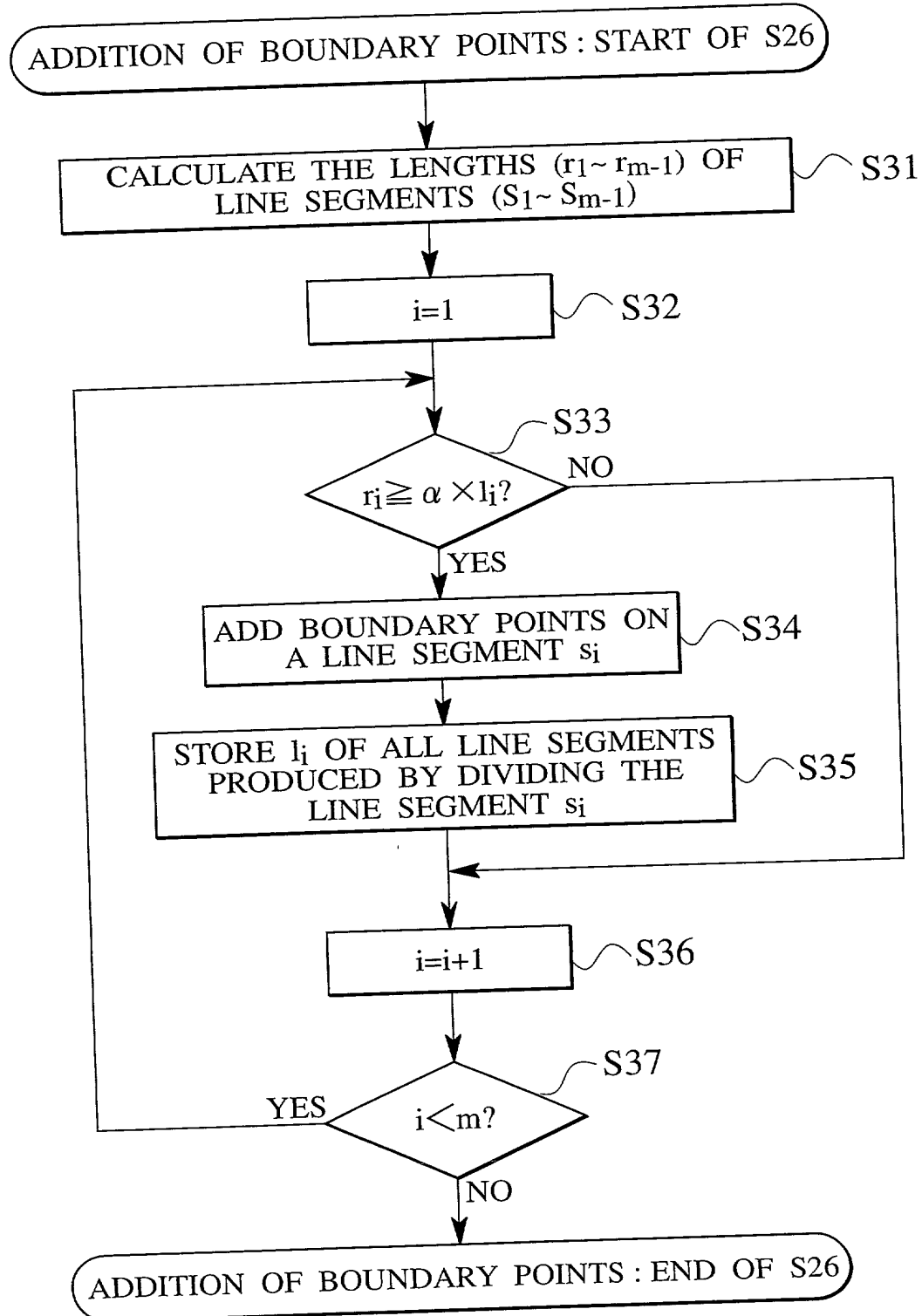
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FIG. 10



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FIG. 11



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FIG. 12

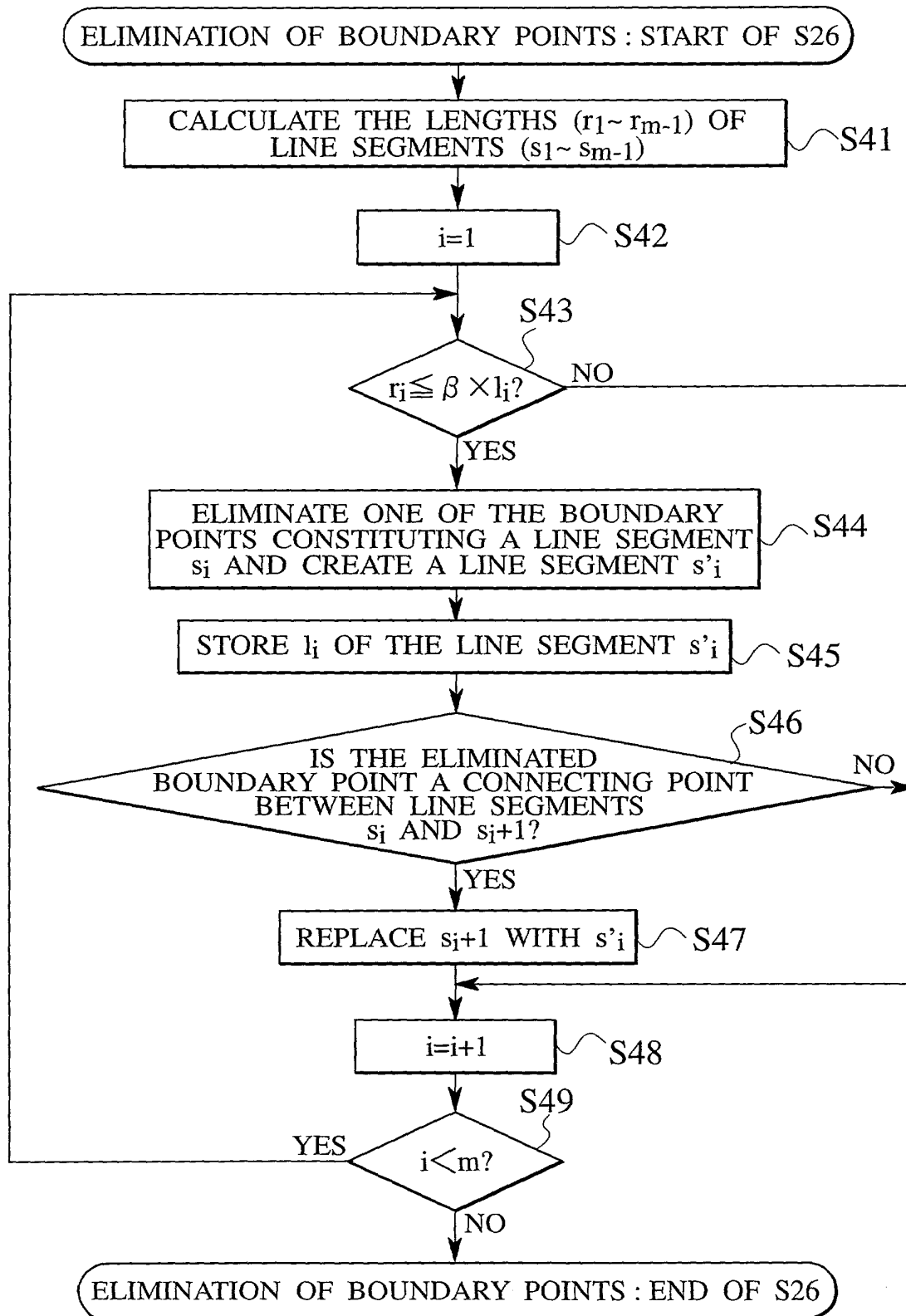
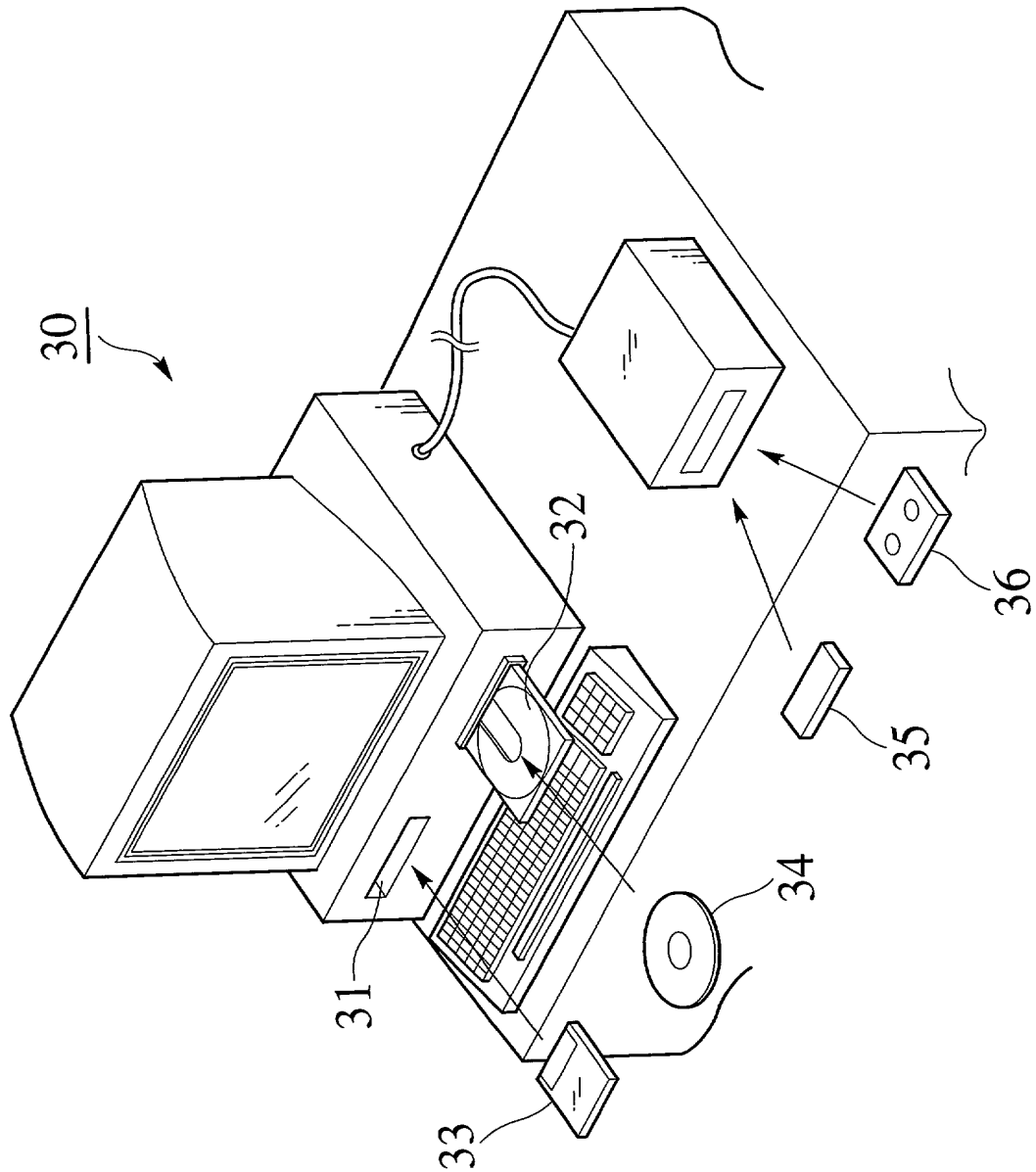


FIG. 13

NUMBER	BOUNDARY POINT (P)			LENGTH OF A LINE SEGMENT (S)		
	POSITION COORDINATES		POSITION COORDINATES DISPLACEMENT (U)	BEFORE MOVEMENT (l)	BEFORE THE REGULATION OF THE LENGTH AFTER MOVEMENT(r)	AFTER THE REGULATION OF THE LENGTH (l)
	x	y				
0	x ₀	y ₀	U _{x0}	U _{y0}		
1	x ₁	y ₁	U _{x1}	U _{y1}	l ₁	r ₁
2	x ₂	y ₂	U _{x2}	U _{y2}	l ₂	r ₂
3	x ₃	y ₃	U _{x3}	U _{y3}	l ₃	r ₃
:						
i	x _i	y _i	U _{xi}	U _{yi}	l _i	r _i
:						
n-1	x _{n-1}	y _{n-1}	U _{xn-1}	U _{yn-1}	l _{n-1}	r _{n-1}

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FIG. 15A

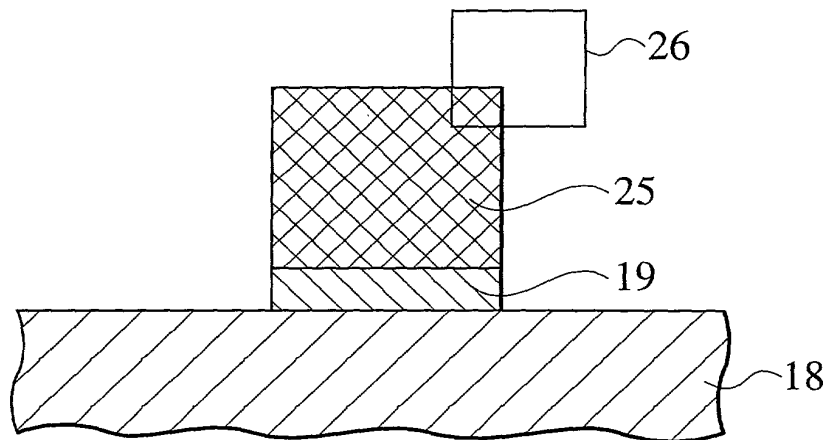


FIG. 15B

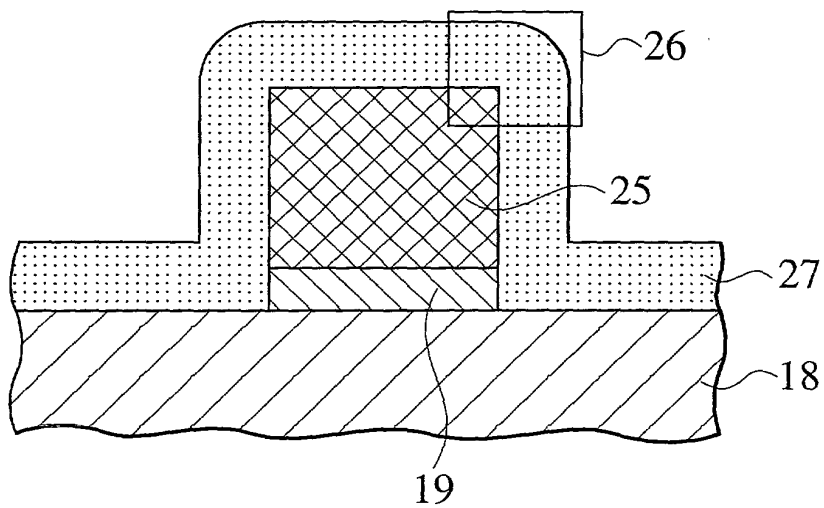


FIG. 16

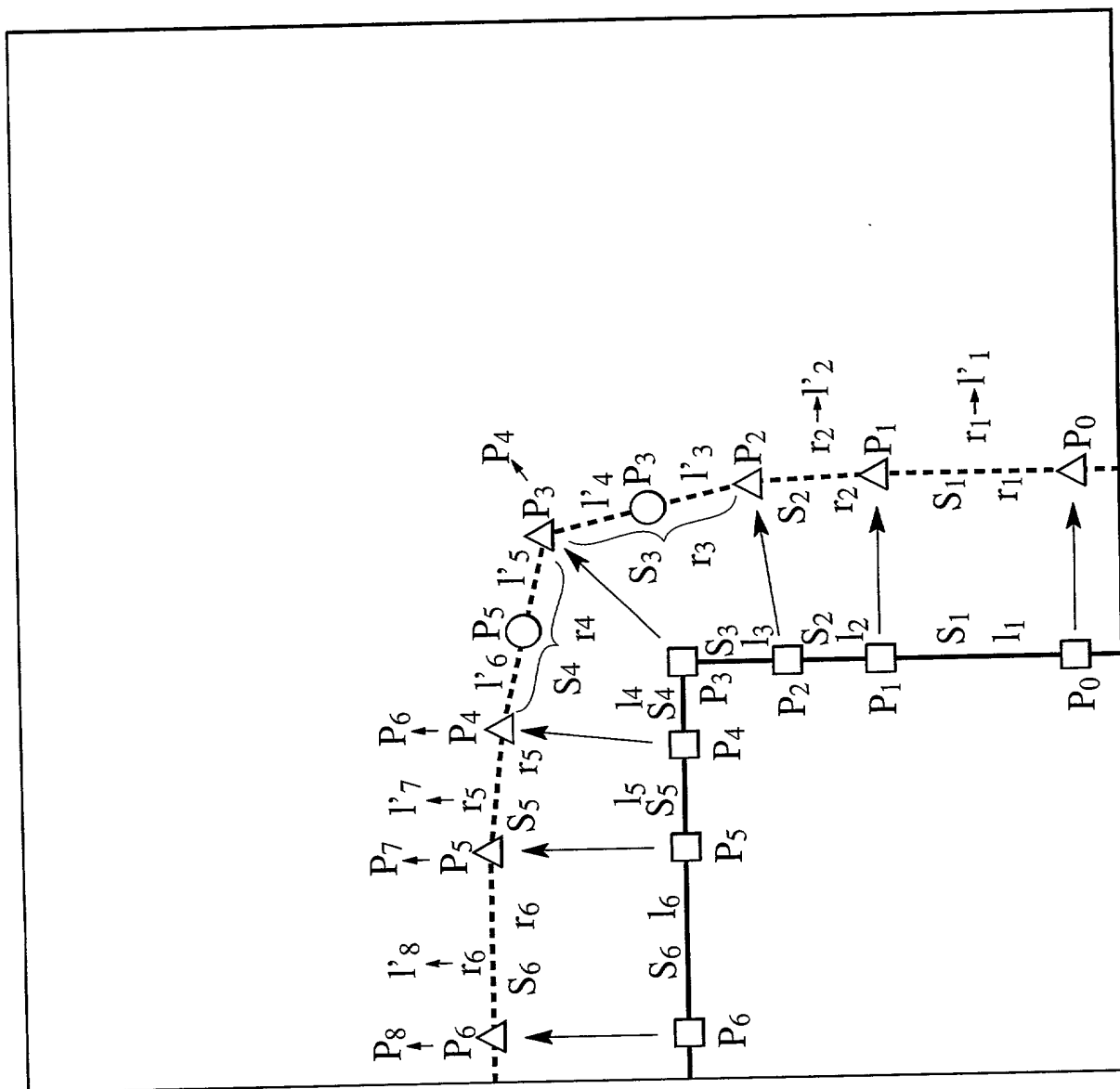


FIG. 17

NUMBER	BOUNDARY POINT (P)			LENGTH OF A LINE SEGMENT (S)		
	POSITION COORDINATES		POSITION COORDINATES DISPLACEMENT (U)	BEFORE MOVEMENT (l)	BEFORE THE REGULATION OF THE LENGTH AFTER MOVEMENT(r)	AFTER THE REGULATION OF THE LENGTH (l)
	X	y				
	X	y	U _x	U _y		
0	X ₀	y ₀	0	0		
1	X ₁	y ₁	0	0	l ₁	
2	X ₂	y ₂	0	0	l ₂	
3	X ₃	y ₃	0	0	l ₃	
4	X ₄	y ₄	0	0	l ₄	
5	X ₅	y ₅	0	0	l ₅	
6	X ₆	y ₆	0	0	l ₆	

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FIG. 18

NUMBER	BOUNDARY POINT (P)			LENGTH OF A LINE SEGMENT (S)		
	POSITION COORDINATES		POSITION COORDINATES DISPLACEMENT (U)	BEFORE MOVEMENT (l)	BEFORE THE REGULATION OF THE LENGTH AFTER MOVEMENT(r)	AFTER THE REGULATION OF THE LENGTH (l)
	x	y	U _x	U _y		
0	x ₀	y ₀	U _{x0}	U _{y0}		
1	x ₁	y ₁	U _{x1}	U _{y1}	l ₁	
2	x ₂	y ₂	U _{x2}	U _{y2}	l ₂	
3	x ₃	y ₃	U _{x3}	U _{y3}	l ₃	
4	x ₄	y ₄	U _{x4}	U _{y4}	l ₄	
5	x ₅	y ₅	U _{x5}	U _{y5}	l ₅	
6	x ₆	y ₆	U _{x6}	U _{y6}	l ₆	

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FIG. 19

NUMBER	BOUNDARY POINT (P)				LENGTH OF A LINE SEGMENT (S)		
	POSITION COORDINATES		POSITION COORDINATES DISPLACEMENT (U)		BEFORE MOVEMENT (l)	BEFORE THE REGULATION OF THE LENGTH AFTER MOVEMENT(r)	AFTER THE REGULATION OF THE LENGTH (l)
	X	y	U _x	U _y			
0	x'0	y'0	0	0			
1	x'1	y'1	0	0	l ₁	r ₁	
2	x'2	y'2	0	0	l ₂	r ₂	
3	x'3	y'3	0	0	l ₃	r ₃	
4	x'4	y'4	0	0	l ₄	r ₄	
5	x'5	y'5	0	0	l ₅	r ₅	
6	x'6	y'6	0	0	l ₆	r ₆	

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FIG. 20

NUMBER	BOUNDARY POINT (P)		POSITION COORDINATES DISPLACEMENT (U)		BEFORE MOVEMENT (l)	LENGTH OF A LINE SEGMENT (S)	
	POSITION COORDINATES		POSITION COORDINATES DISPLACEMENT (U)			BEFORE THE REGULATION OF THE LENGTH AFTER MOVEMENT(r)	AFTER THE REGULATION OF THE LENGTH (l)
	X	y	U _x	U _y			
0	x'0	y'0	0	0			
1	x'1	y'1	0	0	l ₁	r ₁	r ₁
2	x'2	y'2	0	0	l ₂	r ₂	r ₂
3	x'7	y'7	0	0	l ₃	r ₃	l' ₃
4	x'3	y'3	0	0	l ₄	r ₄	l' ₄
5	x'8	y'8	0	0	l ₅	r ₅	l' ₅
6	x'4	y'4	0	0	l ₆	r ₆	l' ₆
7	x'5	y'5	0	0			r ₅
8	x'6	y'6	0	0			r ₆

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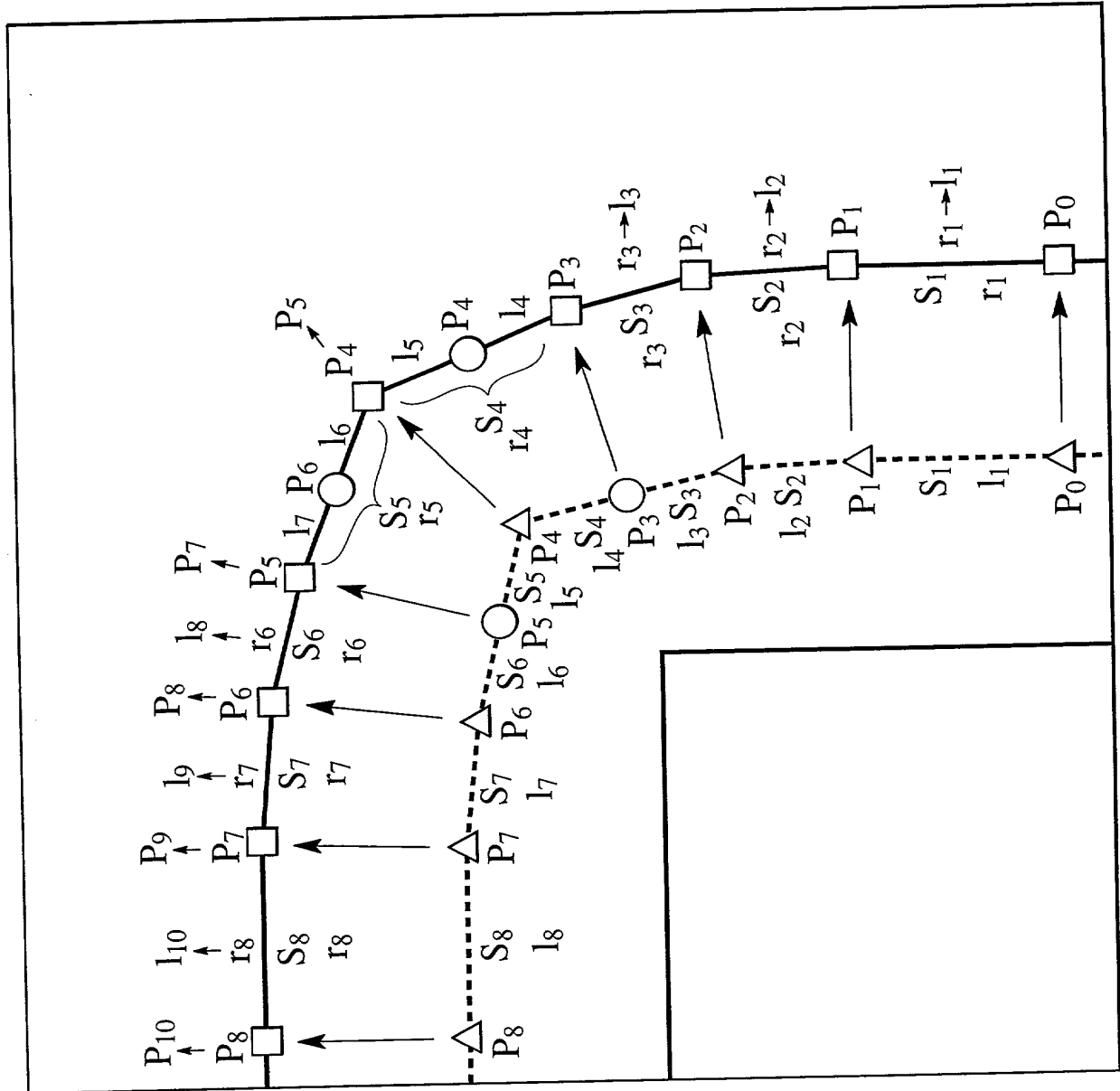


FIG. 21

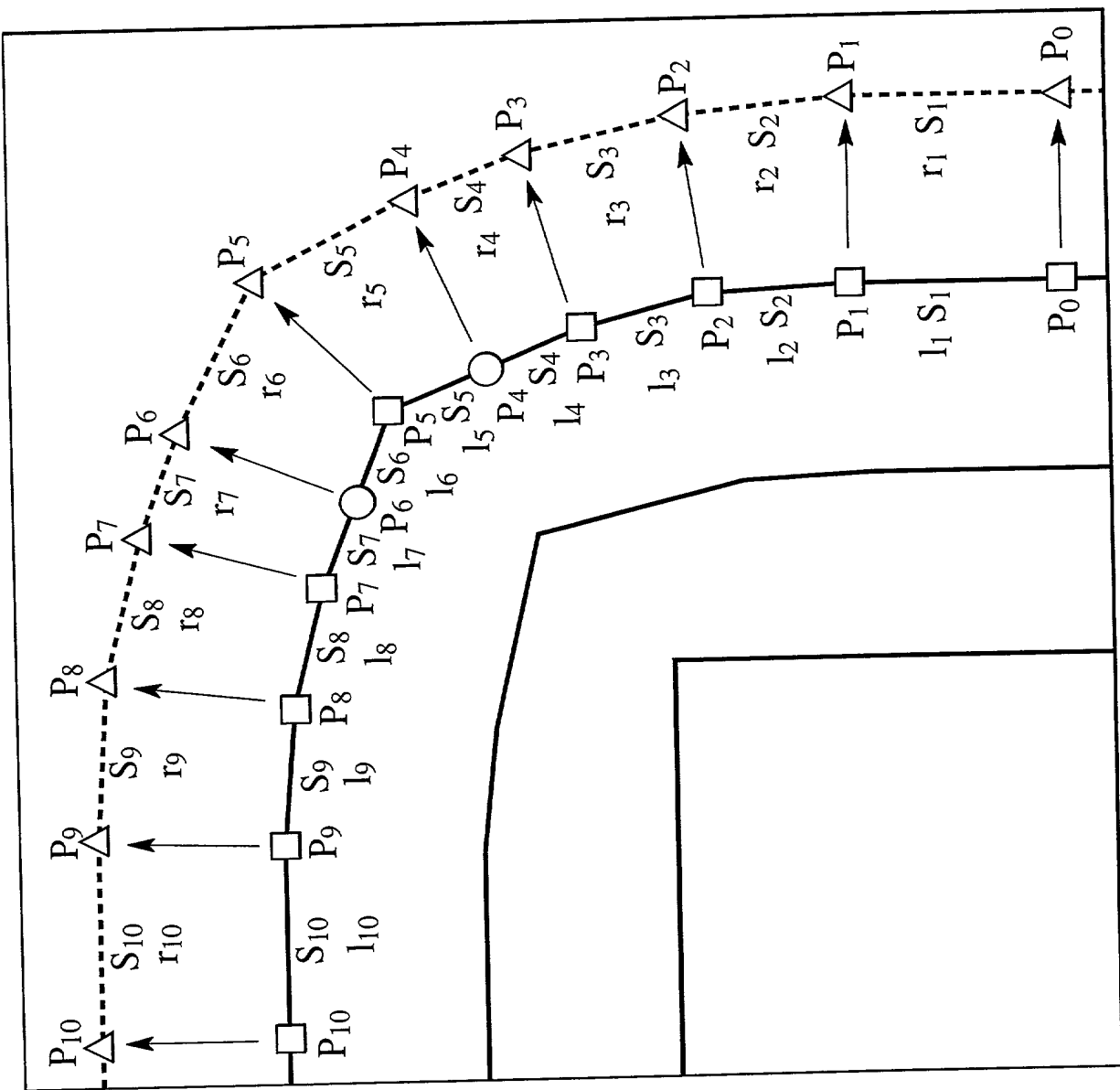


FIG. 22

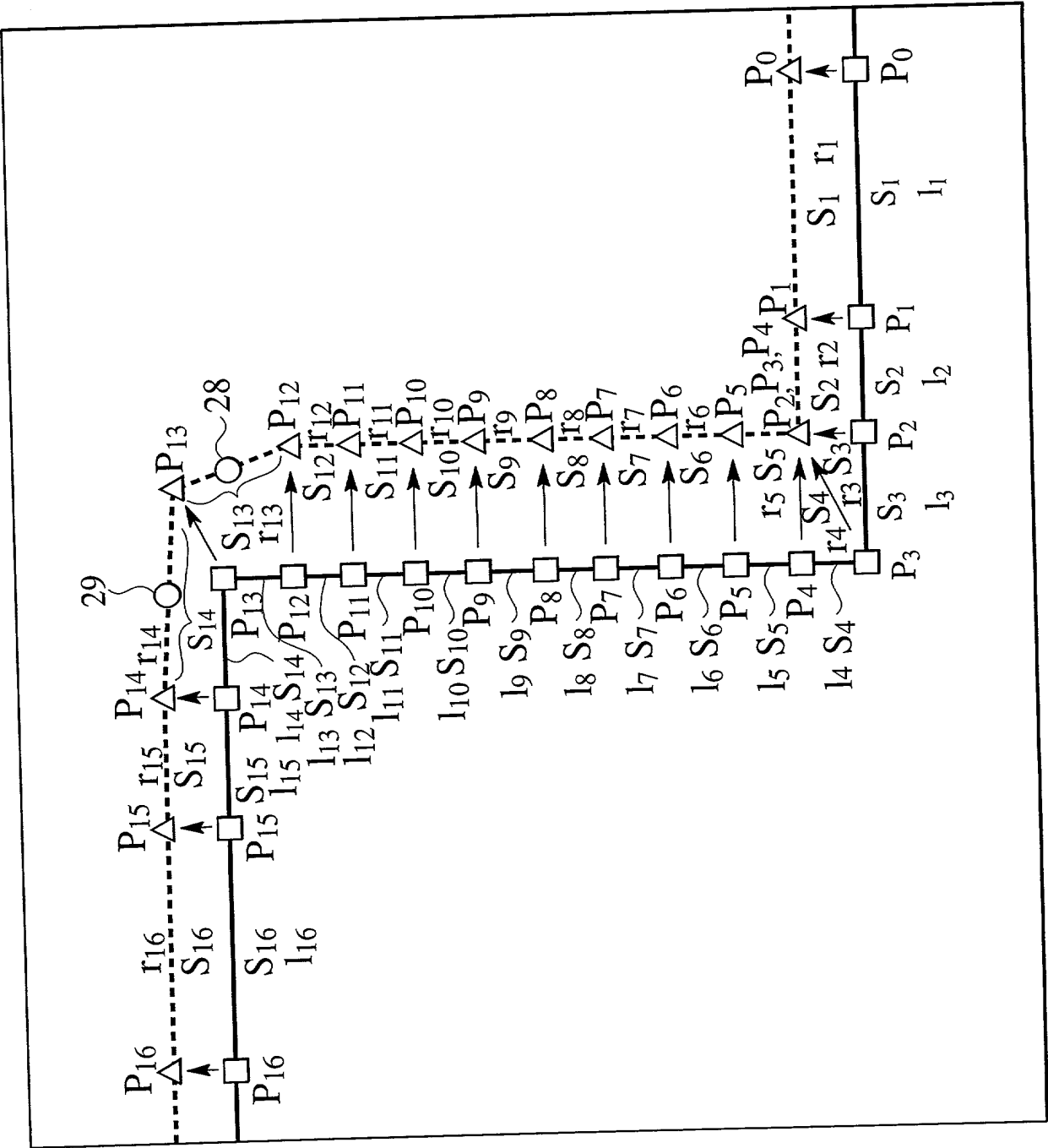


FIG. 23